

INTERCONNECTED BROADCAST AND SELECT OPTICAL
NETWORKS WITH SHARED WAVELENGTHS

ABSTRACT

These and other objects of the present invention are achieved in a method of
5 transmitting optical signal traffic. An all optical network is provided with at least two
rings that are geographically dispersed. Each ring includes at least one transmitter and at
least one receiver. The available wavelengths are separated into distinct ring bands. The
optical signal traffic is shared throughout the entire optical network. Each ring is provided
with its own distinct ring band of the optical signal traffic. All of the optical signal traffic
10 is transmittable throughout the optical network. Each receiver is configured to receive
only wavelengths in a ring band designated for its associated ring.

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